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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/604,747	(	08/14/2003	Daniel Joseph Christian Herr	361007-000025	1746		
24239	7590	06/30/2004		EXAM	EXAMINER		
MOORE &	VAN AI	LLEN, PLLC	WILCZEWSKI, MARY A				
2200 W MAI	N STREE	ET					
SUITE 800				ART UNIT	PAPER NUMBER		
DURHAM, N	NC 2770	)5	2822				

DATE MAILED: 06/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application	ı No.	Applicant(s)	
	10/604,747		HERR ET AL.	
Office Action Summary	Examiner		Art Unit	
	Mary Wilcz		2822	
The MAILING DATE of this community  Period for Reply	inication appears on the c	ov rsh et with the o	correspondence addre	9SS
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMUI  - Extensions of time may be available under the provisio after SIX (6) MONTHS from the mailing date of this cor  - If the period for reply specified above is less than thirty If NO period for reply is specified above, the maximum  - Failure to reply within the set or extended period for rep Any reply received by the Office later than three month earned patent term adjustment. See 37 CFR 1.704(b).	NICATION.  ns of 37 CFR 1.136(a). In no event mmunication.  (30) days, a reply within the statuto statutory period will apply and will a ply will, by statute, cause the applics after the mailing date of this comm	t, however, may a reply be tir ory minimum of thirty (30) day expire SIX (6) MONTHS from ation to become ABANDONE	mely filed  /s will be considered timely.  In the mailing date of this common (35 U.S.C. § 133).	nunication.
Status				
1)⊠ Responsive to communication(s) f	iled on 14 August 2003.			
2a)☐ This action is <b>FINAL</b> .	2b)⊠ This action is no	n-final.		
3) Since this application is in conditio	n for allowance except fo	or formal matters, pro	osecution as to the m	nerits is
closed in accordance with the prac	xice under Ex parte Qua	yle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims				
4) ⊠ Claim(s) <u>1-38</u> is/are pending in the 4a) Of the above claim(s) is. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) <u>1-38</u> are subject to restrict	/are withdrawn from cons			
Application Papers				
9)☐ The specification is objected to by	the Examiner.			
10)⊠ The drawing(s) filed on <u>14 August</u>	<del></del> -	•	•	
Applicant may not request that any ob	• • • • • • • • • • • • • • • • • • • •	•	` '	
Replacement drawing sheet(s) including 11) The oath or declaration is objected	· ·	Ŧ · ·	•	` '
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a clair  a) All b) Some * c) None of:  1. Certified copies of the priorit  2. Certified copies of the priorit  3. Copies of the certified copie  application from the Internat  * See the attached detailed Office act	ty documents have been ty documents have been s of the priority documen tional Bureau (PCT Rule	received. received in Applicat its have been received 17.2(a)).	ion No ed in this National St	age
Attachment(s)				
1) Notice of References Cited (PTO-892)		4)  Interview Summary		
<ol> <li>Notice of Draftsperson's Patent Drawing Review</li> <li>Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date</li> </ol>	or PTO/SB/08)	Paper No(s)/Mail D  Notice of Informal F  Other:	ate Patent Application (PTO-1	52)

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## **DETAILED ACTION**

### Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-31, drawn to a field effect transistor, classified in class 257, subclass 213+.
- II. Claims 32-38, drawn to a method of fabricating a field effect transistor, classified in class 438, subclass 149+.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made.

The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of the group I invention would not necessarily imply unpatentability of the group II invention, since the transistor of the group I invention could be made by processes materially different than those of the group II invention, for example, rather than applying a pattern to the host structure including the engineered array of dopant atoms, the epitaxial film and the dielectric layer to define the final shape of the transistor, the epitaxial film and the dielectric layer could be selectively formed and/or the selectively formed dielectric layer and epitaxial film

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could be used as a mask to pattern the host structure including the engineered array of dopant atoms.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

#### **Drawings**

The drawings filed on August 14, 2003, are acceptable.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Wilczewski whose telephone number is (571) 272-1849. The examiner can normally be reached on Monday and Thursday.

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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. Wilczewski Primary Examiner Tech Center 2800 Page 4